

Notice of Allowability

Application No.

09/889,088

Examiner

Srilakshmi K. Kumar

Applicant(s)

HIRANO ET AL.

Art Unit

2675

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to June 23, 2004.
2. ☒ The allowed claim(s) is/are 1,2,4,6,7 and 9-21, renumbered to 1-18.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Drawings

1. The drawings filed on July 11, 2001 are acceptable subject to correction of the informalities indicated below. In order to avoid abandonment of this application, correction is required in reply to the Office action. The correction will not be held in abeyance.

With respect to the drawings, applicant has not labeled the drawings on page 3 of the drawings with Figure numbers. Examiner has assumed that these figures are Fig. 4 and Fig. 5, but applicant is required to submit corrected drawings.

Allowable Subject Matter

2. Claim 1, 2, 4, 6, 7 and 9-21 are allowed.

3. The following is an examiner's statement of reasons for allowance:

With respect to independent claim 1, the prior art of record do not disclose a liquid crystal display apparatus capable of color displaying comprising a predetermined calculation processing which obtains the digital value for driving the luminance-intensifying subpixel by a function of $W=f(Y_{min}, Y_{max})$ where the digital value of the luminance-intensifying pixel is defined as W , and the minimum value and a maximum value of the digital values of the red inputting subpixel, the green inputting subpixel and the blue inputting subpixel are respectively defined as Y_{min} and Y_{max} , and the function $f(Y_{min}, Y_{max})$ provides an output value that is dependent upon both Y_{min} and Y_{max} .

With respect to independent claim 4, the prior art of do not disclose a liquid crystal display comprising predetermined calculating processing by decoder provides the digital value

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for driving the luminance-intensifying subpixel by a function of $W=f(Y_{\min}, \alpha, \beta, \eta)$ where the digital value of the luminance-intensifying pixel is defined as W , and a minimum value of the digital values of the red, green, and blue inputting subpixel is defined as Y_{\min} , and α, β, η are predetermined real numbers, at least one of α and β being non-zero, and a maximum value which digital values of the red, green and blue inputting subpixel can take is defined as MAX , and the function of $W=f(Y_{\min}, \alpha, \beta, \eta)$ is represented by a function of $W=Max*((Y_{\min} + \alpha)/(MAX+\beta))^{\eta}$.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srilakshmi K. Kumar whose telephone number is 703 306 5575. The examiner can normally be reached on 8:00 am to 4:30 pm.

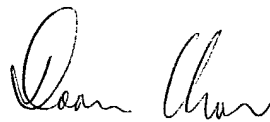
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, xxxx xxxx can be reached on xxx xxx xxxx. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Srilakshmi K. Kumar
Examiner
Art Unit 2675

SKK
December 17, 2004


DENNIS-DOON CHOW
PRIMARY EXAMINER